

Rec'd PCT/US 30 MAR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/029618 A3

(51) International Patent Classification⁷: C12Q 1/68 WOLFGANG, Curt, Douglas [US/US]; 13331 Neerwinder Place, Germantown, MD 20874 (US).

(21) International Application Number:
PCT/EP2003/010798

(74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(22) International Filing Date:
29 September 2003 (29.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/415,123 30 September 2002 (30.09.2002) US

(84) Designated States (*regional*): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(71) Applicant (*for all designated States except AT, US*): NOVARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(71) Applicant (*for AT only*): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).

(88) Date of publication of the international search report:
17 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and
(75) Inventors/Applicants (*for US only*): KUDARAVALLI, Sridhar [IN/US]; 19637 Crystal Rock Drive, Apt. 12, Germantown, MD 20874 (US). POLYMEROPoulos, Mihael, Hristos [US/US]; 11300 Ridge Mist Terrace, Potomac, MD 20854 (US). TORRES, Rosarelis [US/US]; 5317 King Charles Way, Bethesda, MD 20814 (US).

WO 2004/029618 A3

(54) Title: METHODS TO PREDICT CHOLESTEROL ELEVATIONS DURING IMMUNOSUPPRESSANT THERAPY

(57) Abstract: This invention provides methods to predict the degree of elevation of serum cholesterol levels in patients treated with immunosuppressive medication. This invention also provides treatment strategies based on these predictions and kits to carry out these methods.

INTERNATIONAL SEARCH REPORT

Inter

nal Application No

EPO 03/10798

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, EMBL, SEQUENCE SEARCH, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EL-OMAR E M ET AL: "Interleukin-1 polymorphisms associated with increased risk of gastric cancer" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 404, 23 March 2000 (2000-03-23), pages 398-402, XP002230574 ISSN: 0028-0836 the whole document	17-19
X	US 6 268 142 B1 (DUFF GORDON W ET AL) 31 July 2001 (2001-07-31)	17-19
A	the whole document	---
	---	-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

7 April 2004

Date of mailing of the international search report

23/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bort, S

INTERNATIONAL SEARCH REPORT

Inter

nal Application No

EP 03/10798

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MATTILA ET AL.: "Association of an interleukin 1B gene polymorphism (-511) with Parkinson's disease in Finnish patients" JOURNAL OF MEDICINE GENETICS, June 2002 (2002-06), pages 400-402, XP008029459 abstract	17-19
A	KERSCHDORFER ET AL.: "Lipoprotein(a) plasma concentration after renal transplantation: a prospective evaluation after 4 years of follow-up" ATHEROSCLEROSIS, vol. 144, 1999, pages 381-391, XP002276412 abstract	
A	DATABASE EMBL 'Online' 26 June 1997 (1997-06-26) CLARK ET AL.: "Human gene for prointerleukin 1 beta" Database accession no. X04500 XP002276413 cited in the application abstract	
A	RADEAU ET AL.: "HDL cholesterol and TaqIB cholesteryl ester transfer protein gene polymorphism in renal transplant recipients" NEPHRON, vol. 84, 2000, pages 333-341, XP008029468 the whole document	

INTERNATIONAL SEARCH REPORT

Inte

rial Application No

EP 03/10798

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6268142	B1	31-07-2001	AU 755107 B2	05-12-2002
			AU 7539898 A	30-12-1998
			BR 9809183 A	01-08-2000
			CA 2291731 A1	03-12-1998
			CN 1278868 T	03-01-2001
			EP 0983385 A1	08-03-2000
			WO 9854359 A1	03-12-1998
			JP 2002500513 T	08-01-2002
			NO 995803 A	18-01-2000
			PL 337080 A1	31-07-2000
			US 2002146700 A1	10-10-2002
			ZA 9804490 A	02-12-1998